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BRT-Burleson Research Technologies, Inc.

August 31, 2000

Annie Jarabek
US EPA

Dear Annie:

I am sending the histopathology data for the 90 Day 50 mg/kg/day study done by Doug Wolf. I am sending this as an addendum to the final report. I am sending a copy to TERA by overnight mail.

Please do not hesitate to contact me if you have any questions.

With best wishes.

Sincerely,

Gary R. Burleson, Ph.D.

AMMONIUM PERCHLORATE: EFFECT ON IMMUNE FUNCTION

BRT 19990524 Study Protocol
Plaque-Forming Cell (PFC) Assay

BRT19990525 Study Protocol
Local Lymph Node Assay (LLNA) in Mice

Sponsor: PSG
Michael Girard

Study Monitor: Michael L. Dourson, PhD, DABT
Joan Dollarhide
TERA
1757 Chase Avenue
Cincinnati, OH 45223

Submitted by: BRT-Burleson Research Technologies, Inc.
5706 Chapel Hill Road
Raleigh, NC 27607

Addendum to Report:
AMMONIUM PERCHLORATE: EFFECT ON IMMUNE FUNCTION
BRT 19990524 Study Protocol: Plaque-Forming Cell (PFC) Assay
BRT19990525 Study Protocol: Local Lymph Node Assay (LLNA) in Mice

Histopathology Results for 90 Day Ammonium Perchlorate (50 mg/Kg/day):

- There were no alterations in the 5 control mouse thyroids
- 4/5 of the high dose 90 day mice had hypertrophy and 5/5 had colloid depletion

There was a slight increase in labeling index in the 5 high dose 90 day mice: a doubling of the labeling from 3.8+/-1.9 labeled cells for control thyroid to 9.4+/-3.8 labeled cells for high dose 90 day thyroids

The significance of a doubling of LI has never been determined for any tissue. A slight increase without hyperplasia probably indicates a physiologic response to treatment and not a preneoplastic response.